

ABSTRACT OF THE DISCLOSURE

A method and device (1) for laser machining vehicle bodies or body parts (2) uses a laser beam (14) that is guided from a laser source (13) to a remote laser tool (15) on a robot hand by a guiding device (16). The robot (4) maintains the laser tool (15) in a suspended manner over the tool (2), at a focal length (F) and at a contact free distance and guides it along a machining path 5 (30). The laser beam (14) is deviated, by movement of the hand axis (IV, V, VI), about a variable deviation angle (α), and the laser source (13), whose power is variable, is controlled according to the movement of the laser beam. The beam deviation of the hand axis (IV, V, VI) can be superimposed on an offset movement of the robot (4).